

Title: US-09-884-767A-1  
Perfect score: 16  
Sequence: 1 XXXXDRX 7

RESULT 6

AAW31031

ID AAW31031 standard; peptide; 7 AA.  
XX  
AC AAW31031;  
XX  
DT 09-JAN-1998 (first entry)  
XX  
DE Mugwort pollen allergen B cell epitope.  
XX  
KW Cofactor-independent phosphoglycerate mutase; PGM-i; E.C. 5.4.21;  
KW Timothy grass; pollen; allergy; plant allergen; panallergen; B cell;  
KW T cell; epitope; immunotherapy; detection; diagnosis; hay fever;  
KW conserved.  
XX  
OS Artemisia vulgaris.  
XX  
PN WO9705258-A2.  
XX  
PD 13-FEB-1997.  
XX  
PF 02-AUG-1996; 96WO-AT00141.  
XX  
PR 02-AUG-1995; 95AT-0001320.  
XX  
PA (BIOM-) BIOMAY PRODN & HANDELS GMBH.  
XX  
PI Breitenbach M, Ebner C, Engel E, Ferreira F, Jilek A;  
PI Kraft D, Richter K, Rheinberger H;  
XX  
DR WPI; 1997-145695/13.  
XX  
PT New recombinant DNA encoding plant phospho:glycerate mutase or its  
PT antigenic epitope(s) - useful for diagnosis or treatment of  
PT allergies to pollen and plant-derived foods  
XX  
PS Disclosure; Fig 11a; 160pp; German.  
XX  
CC AAW31018-W31040 are B cell epitopes of mugwort pollen co-factor-  
CC independent phosphoglycerate mutase (PGM-i) isoform Art6. PGM-i is  
CC a highly conserved plant allergen (panallergen) which can cause  
CC cross-reactivity in patients allergic to pollen and plant-derived  
CC foods. PGM-i and it's B cell and T cell epitopes can be used for the  
CC in vitro detection of allergy against PGM-i, by measuring serum IgE  
CC or a cellular reaction. They can also be used in immunotherapy and  
CC will not cause an autoimmune response because PGM-i is significantly  
CC different from the human enzyme, which is co-factor dependent.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 16; DB 18; Length 7;  
Best Local Similarity 28.6%; Pred. No. 7.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|::  
Db 1 NFRADRM 7

RESULT 13

US-07-714-540-7  
; Sequence 7, Application US/07714540  
; Patent No. 5262521  
; GENERAL INFORMATION:  
; APPLICANT: Almquist, Ronald G.  
; APPLICANT: Toll, Lawrence

; TITLE OF INVENTION: ISOLATED ATRIAL PEPTIDE-DEGRADING  
 ; TITLE OF INVENTION: ENZYME AND NOVEL COMPOUNDS USEFUL AS INHIBITORS THEREOF  
 ; NUMBER OF SEQUENCES: 13  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Irell & Manella  
 ; STREET: 545 Middlefield Road, Suite 200  
 ; CITY: Menlo Park  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94025  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/714,540  
 ; FILING DATE: 19910607  
 ; CLASSIFICATION: 530  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Reed, Dianne E.  
 ; REGISTRATION NUMBER: 31,292  
 ; REFERENCE/DOCKET NUMBER: 8500-0135.00  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415-327-7250  
 ; TELEFAX: 415-327-2951  
 ; TELEX: 706141  
 ; INFORMATION FOR SEQ ID NO: 7:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 8 amino acids  
 ; TYPE: AMINO ACID  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 US-07-714-540-7

Query Match 100.0%; Score 16; DB 1; Length 8;  
 Best Local Similarity 28.6%; Pred. No. 2e+05;  
 Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
 : : : : | | :  
 Db 1 DVNTDRP 7

# RESULT 6

US-09-243-079-74  
 ; Sequence 74, Application US/09243079  
 ; Patent No. US20020081566A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Beretta, Alberto  
 ; TITLE OF INVENTION: HIV PROTEIN EPITOPES IMMUNOLOGICALLY  
 ; TITLE OF INVENTION: HOMOLOGOUS TO HLA  
 ; FILE REFERENCE: 29928-PCT-USA-I  
 ; CURRENT APPLICATION NUMBER: US/09/243,079  
 ; CURRENT FILING DATE: 1999-02-02  
 ; PRIOR APPLICATION NUMBER: 08/335,733  
 ; PRIOR FILING DATE: 1994-11-10  
 ; PRIOR APPLICATION NUMBER: PCT/IT93/00049  
 ; PRIOR FILING DATE: 1993-05-10  
 ; PRIOR APPLICATION NUMBER: RM92A/000350  
 ; PRIOR FILING DATE: 1992-05-11  
 ; NUMBER OF SEQ ID NOS: 89  
 ; SOFTWARE: FastSEQ for Windows Version 3.0  
 ; SEQ ID NO 74  
 ; LENGTH: 8  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-243-079-74

Query Match 100.0%; Score 16; DB 10; Length 8;

. Best Local Similarity 28.6%; Pred. No. 8.8e+04;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|l:  
Db 2 QAQADRV 8

RESULT 7

US-09-243-079-75

; Sequence 75, Application US/09243079

; Patent No. US20020081566A1

; GENERAL INFORMATION:

; APPLICANT: Beretta, Alberto

; TITLE OF INVENTION: HIV PROTEIN EPITOPES IMMUNOLOGICALLY

; TITLE OF INVENTION: HOMOLOGOUS TO HLA

; FILE REFERENCE: 29928-PCT-USA-I

; CURRENT APPLICATION NUMBER: US/09/243,079

; CURRENT FILING DATE: 1999-02-02

; PRIOR APPLICATION NUMBER: 08/335,733

; PRIOR FILING DATE: 1994-11-10

; PRIOR APPLICATION NUMBER: PCT/IT93/00049

; PRIOR FILING DATE: 1993-05-10

; PRIOR APPLICATION NUMBER: RM92A/000350

; PRIOR FILING DATE: 1992-05-11

; NUMBER OF SEQ ID NOS: 89

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 75

; LENGTH: 8

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-243-079-75

Query Match 100.0%; Score 16; DB 10; Length 8;

Best Local Similarity 28.6%; Pred. No. 8.8e+04;

Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|l:  
Db 1 QAQADRV 7

RESULT 13

US-09-931-969A-11

; Sequence 11, Application US/09931969A

; Patent No. US20020160959A1

; GENERAL INFORMATION:

; APPLICANT: Nicholette, Charles A.

; TITLE OF INVENTION: THERAPEUTIC COMPOUNDS FOR OVARIAN CANCER

; FILE REFERENCE: GZ 2104.00

; CURRENT APPLICATION NUMBER: US/09/931,969A

; CURRENT FILING DATE: 2002-04-08

; PRIOR APPLICATION NUMBER: 60/226,243

; PRIOR FILING DATE: 2000-08-17

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 9

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-931-969A-11

Query Match 100.0%; Score 16; DB 9; Length 9;

Best Local Similarity 28.6%; Pred. No. 8.8e+04;

Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|l:  
Db 1 IIEDRL 7

RESULT. 2

PT0676

T-cell receptor beta chain V-D-J region (140-1AL) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C;Accession: PT0676

R;Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.

A;Reference number: PT0509; MUID:91277601; PMID:1711558

A;Accession: PT0676

A;Status: translation not shown

A;Molecule type: DNA

A;Residues: 1-7 <FEE>

A;Experimental source: day 18 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 7;  
Best Local Similarity 28.6%; Pred. No. 2.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7

::::||:

Db 1 ASGEDRG 7

RESULT 3

PT0576

T-cell receptor beta chain V-D-J region (141-1G) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C;Accession: PT0576

R;Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.

A;Reference number: PT0509; MUID:91277601; PMID:1711558

A;Accession: PT0576

A;Status: translation not shown

A;Molecule type: mRNA

A;Residues: 1-7 <FEE>

A;Experimental source: day 19 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 7;  
Best Local Similarity 28.6%; Pred. No. 2.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7

::::||:

Db 1 ASSDDRT 7

RESULT 7

PT0547

T-cell receptor beta chain V-D-J region (126-1AI) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 17-Jul-1992 #sequence\_revision 17-Jul-1992 #text\_change 30-May-1997

C;Accession: PT0547

R;Feeney, A.J.

J. Exp. Med. 174, 115-124, 1991

A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.

A;Reference number: PT0509; MUID:91277601; PMID:1711558

A;Accession: PT0547

A;Status: translation not shown

A;Molecule type: mRNA

A;Residues: 1-8 <FEE>

A;Experimental source: day 18 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 8;  
Best Local Similarity 28.6%; Pred. No. 2.8e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy . 1 XXXXDRX 7  
:::| |:  
Db 2 SSDADRG 8

RESULT 9

PT0212

T-cell receptor alpha chain V-J region (4-1-E.2) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 31-Dec-1991 #sequence\_revision 31-Dec-1991 #text\_change 30-May-1997

C;Accession: PT0212

R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.

J. Exp. Med. 173, 1091-1097, 1991

A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restricted in non-obese diabetic mice.

A;Reference number: PT0209; MUID:91217621; PMID:1902501

A;Accession: PT0212

A;Molecule type: mRNA

A;Residues: 1-10 <NAK>

C;Keywords: T-cell receptor

Query Match 100.0%; Score 16; DB 2; Length 10;  
Best Local Similarity 28.6%; Pred. No. 1.1e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::| |:  
Db 4 AGGADRL 10

RESULT 6

MY14\_EISFO

ID MY14\_EISFO STANDARD; PRT; 14 AA.

AC P46979;

DT 01-NOV-1995 (Rel. 32, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)

DT 01-NOV-1995 (Rel. 32, Last annotation update)

DE Myoactive tetradecapeptide (ETP).

OS Eisenia foetida (Common brandling worm) (Common dung-worm).

OC Eukaryota; Metazoa; Annelida; Clitellata; Oligochaeta; Haplotaxida;

OC Lumbricina; Lumbricidae; Eisenia.

OX NCBI\_TaxID=6396;

RN [1]

RP SEQUENCE, AND SYNTHESIS.

RC TISSUE=Gut;

RX MEDLINE=96087879; PubMed=8532604;

RA Ukena K., Oumi T., Matsushima O., Ikeda T., Fujita T., Minakata H.,

RA Nomoto K.;

RT "A novel gut tetradecapeptide isolated from the earthworm, Eisenia

RT foetida.";

RL Peptides 16:995-999(1995).

CC -!- FUNCTION: HAS A STIMULATIVE EFFECT ON THE CONTRACTION OF GUT

CC MUSCLES.

CC -!- SIMILARITY: TO INSECTS ALLATOTROPIN.

KW Neuropeptide; Amidation.

FT MOD\_RES 14 14 AMIDATION.

SQ SEQUENCE 14 AA; 1478 MW; CC9ABEF941CD91AD CRC64;

Query Match 100.0%; Score 16; DB 1; Length 14;  
Best Local Similarity 28.6%; Pred. No. 5.9e+02;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::| |:  
Db 4 DGAADRI 10

RESULT 7

MY14\_PHEVI

ID MY14\_PHEVI STANDARD; PRT; 14 AA.

AC P46980;

DT 01-NOV-1995 (Rel. 32, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 01-NOV-1995 (Rel. 32, Last annotation update)  
 DE Myoactive tetradecapeptide (PTP).  
 OS Pheretima vittata (Earthworm).  
 OC Eukaryota; Metazoa; Annelida; Clitellata; Oligochaeta; Haplotaxida;  
 OC Lumbricina; Megascolecidae; Pheretima.  
 OX NCBI\_TaxID=46674;  
 RN [1]  
 RP SEQUENCE, AND SYNTHESIS.  
 RC TISSUE=Gut;  
 RX MEDLINE=96087879; PubMed=8532604;  
 RA Ukena K., Oumi T., Matsushima O., Ikeda T., Fujita T., Minakata H.,  
 RA Nomoto K.;  
 RT "A novel gut tetradecapeptide isolated from the earthworm, Eisenia  
 RT foetida.";  
 RL Peptides 16:995-999(1995).  
 CC -!- FUNCTION: HAS A STIMULATIVE EFFECT ON THE CONTRACTION OF GUT  
 CC MUSCLES.  
 CC -!- SIMILARITY: TO INSECTS ALLATOTROPIN.  
 KW Neuropeptide; Amidation.  
 FT MOD\_RES 14 14 AMIDATION.  
 SQ SEQUENCE 14 AA; 1522 MW; DA40BEE67CCD91AD CRC64;

Query Match 100.0%; Score 16; DB 1; Length 14;  
 Best Local Similarity 28.6%; Pred. No. 5.9e+02;  
 Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
 :::||:  
 Db 4 DGSADRI 10

# RESULT 12

## FIBB\_LAMGL

ID FIBB\_LAMGL STANDARD; PRT; 19 AA.  
 AC P14473;  
 DT 01-JAN-1990 (Rel. 13, Created)  
 DT 01-JAN-1990 (Rel. 13, Last sequence update)  
 DT 15-JUN-2002 (Rel. 41, Last annotation update)  
 DE Fibrinogen beta chain [Contains: Fibrinopeptide B] (Fragment).  
 GN FGB.  
 OS Lama glama (Llama),  
 OS Lama vicugna (Vicugna) (Vicugna vicugna), and  
 OS Camelus dromedarius (Dromedary) (Arabian camel).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Cetartiodactyla; Tylopoda; Camelidae; Lama.  
 OX NCBI\_TaxID=9844, 9843, 9838;  
 RN [1]  
 RP SEQUENCE.  
 RC SPECIES=L.glama;  
 RA Blomback B., Blomback M., Grondahl N.J.;  
 RT "Studies on fibrinopeptides from mammals.";  
 RL Acta Chem. Scand. 19:1789-1791(1965).  
 RN [2]  
 RP SEQUENCE.  
 RC SPECIES=C.dromedarius;  
 RX MEDLINE=67209145; PubMed=6033721;  
 RA Doolittle R.F., Schubert D., Schwartz S.A.;  
 RT "Amino acid sequence studies on artiodactyl fibrinopeptides. I.  
 RT Dromedary camel, mule deer, and cape buffalo.";  
 RL Arch. Biochem. Biophys. 118:456-467(1967).  
 RN [3]  
 RP SEQUENCE.  
 RC SPECIES=L.vicugna;  
 RA Mross G.A., Doolittle R.F.;  
 RT "Amino acid sequence studies on artiodactyl fibrinopeptides.";  
 RL Arch. Biochem. Biophys. 122:674-684(1967).  
 CC -!- FUNCTION: FIBRINOGEN HAS A DOUBLE FUNCTION: YIELDING MONOMERS THAT  
 CC POLYMERIZE INTO FIBRIN AND ACTING AS A COFACTOR IN PLATELET  
 CC AGGREGATION.  
 CC -!- SUBUNIT: HEXAMER CONTAINING 2 SETS OF 3 NONIDENTICAL CHAINS

CC . (ALPHA, BETA AND GAMMA), LINKED TO EACH OTHER BY DISULFIDE BONDS.  
 CC -!- MISCELLANEOUS: CONVERSION OF FIBRINOGEN TO FIBRIN IS TRIGGERED BY  
 CC THROMBIN, WHICH CLEAVES FIBRINOPEPTIDES A AND B FROM ALPHA & BETA  
 CC CHAINS, AND THUS EXPOSES THE N-TERMINAL POLYMERIZATION SITES  
 CC RESPONSIBLE FOR THE FORMATION OF THE SOFT CLOT.  
 DR InterPro; IPR002181; Fibrinogen\_C.  
 DR PROSITE; PS00514; FIBRIN\_AG\_C\_DOMAIN; PARTIAL.  
 KW Blood coagulation; Plasma; Sulfation.  
 FT PEPTIDE 1 19 FIBRINOPEPTIDE B.  
 FT MOD\_RES 4 4 SULFATION.  
 FT NON\_TER 19 19  
 SQ SEQUENCE 19 AA; 2295 MW; E7EE6B6100568638 CRC64;

Query Match 100.0%; Score 16; DB 1; Length 19;  
 Best Local Similarity 28.6%; Pred. No. 8.2e+02;  
 Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
 : : : : :  
 Db 6 EEEDDRV 12

# RESULT 13

## LPGE\_ECOLI

ID LPGE\_ECOLI STANDARD; PRT; 19 AA.  
 AC P33236;  
 DT 01-FEB-1994 (Rel. 28, Created)  
 DT 01-FEB-1994 (Rel. 28, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Gef leader peptide.  
 GN GEFL OR B0018.  
 OS Escherichia coli.  
 OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
 OC Escherichia.  
 OX NCBI\_TaxID=562;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=92048481; PubMed=1943701;  
 RA Poulsen L.K., Refn A., Molin S., Andersson P.;  
 RT "The gef gene from Escherichia coli is regulated at the level of  
 translation.";  
 RL Mol. Microbiol. 5:1639-1648(1991).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=K12 / MG1655;  
 RX MEDLINE=97426617; PubMed=9278503;  
 RA Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,  
 RA Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,  
 RA Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,  
 RA Mau B., Shao Y.;  
 RT "The complete genome sequence of Escherichia coli K-12.";  
 RL Science 277:1453-1474(1997).

CC -----  
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 CC -----

DR EMBL; AE000112; AAC73129.1; ALT\_TERM.  
 DR PIR; S16473; S16473.  
 DR EcoGene; EG12074; gefL.  
 KW Leader peptide; Complete proteome.  
 SQ SEQUENCE 19 AA; 2259 MW; 19B3EDF371EB0BEB CRC64;

Query Match 100.0%; Score 16; DB 1; Length 19;  
 Best Local Similarity 28.6%; Pred. No. 8.2e+02;  
 Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy . 1 XXXXDRX 7  
:::|:  
Db 7 VPLTDRK 13

RESULT 4

Q70140

ID Q70140 PRELIMINARY; PRT; 9 AA.  
AC Q70140;  
DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE Tat protein (Fragment).  
GN TAT.  
OS Human immunodeficiency virus type 1.  
OC Viruses; Retrovird viruses; Retroviridae; Lentivirus.  
OX NCBI\_TaxID=11676;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=020;  
RX MEDLINE=95194694; PubMed=7888189;  
RA Gao F., Yue L., Craig S., Thornton C.L., Robertson D.L.,  
RA McCutchan F.E., Bradac J.A., Sharp P.M., Hahn B.H.;  
RT "Genetic variation of HIV type 1 in four World Health Organization-  
RT sponsored vaccine evaluation sites: generation of functional envelope  
RT (glycoprotein 160) clones representative of sequence subtypes A, B, C,  
RT and E. WHO Network for HIV Isolation and Characterization.";  
RL AIDS Res. Hum. Retroviruses 10:1359-1368(1994).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=020;  
RX MEDLINE=96190564; PubMed=8627686;  
RA Gao F., Morrison S.G., Robertson D.L., Thornton C.L., Craig S.,  
RA Karlsson G., Sodroski J., Morgado M., Galvao-Castro B.,  
RA von Briesen H., Beddows S., Weber J., Sharp P.M., Shaw G.M.,  
RA Hahn B.H.;  
RT "Molecular cloning and analysis of functional envelope genes from  
RT human immunodeficiency virus type 1 sequence subtypes A through G. The  
RT WHO and NIAID Networks for HIV Isolation and Characterization.";  
RL J. Virol. 70:1651-1657(1996).  
RN [3]  
RP SEQUENCE FROM N.A.  
RC STRAIN=020;  
RA Allen E.E.;  
RL Submitted (APR-1994) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; U08794; AAB05175.1; -.  
FT NON TER 1 1  
SQ SEQUENCE 9 AA; 1098 MW; 5B76D40AB1AB01A3 CRC64;

Query Match 100.0%; Score 16; DB 15; Length 9;  
Best Local Similarity 28.6%; Pred. No. 6.7e+05;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|:  
Db 2 KTETDRF 8

RESULT 15

Q93A08

ID Q93A08 PRELIMINARY; PRT; 12 AA.  
AC Q93A08;  
DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
DE ResB protein (Fragment).  
GN RESB.  
OS Thiobacillus ferrooxidans.  
OC Bacteria; Proteobacteria; gamma subdivision; Acidithiobacillus.  
OX NCBI\_TaxID=920;  
RN [1]



RP SEQUENCE FROM N.A.  
RC STRAIN=ATCC33020;  
RA Levican G., Bruscella P., Guacunano M., Inostroza C., Jedlicki E.,  
RA Bonnefoy V., Holmes D.S.;  
RT "Characterization of the pet and res operons of Acidithiobacillus  
RT ferrooxidans.";  
RL Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; AJ413194; CAC88360.1; -.  
FT NON\_TER 1 1  
SQ SEQUENCE 12 AA; 1405 MW; 886AB7DF1E13240A CRC64;

Query Match 100.0%; Score 16; DB 2; Length 12;  
Best Local Similarity 28.6%; Pred. No. 2.3e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|:

Db 1 QSQDDRK 7

RESULT 10

US-08-045-394A-47

; Sequence 47, Application US/08045394A

; GENERAL INFORMATION:

; APPLICANT: Rath, Matthias

; TITLE OF INVENTION: Further Synthetic Oligopeptides

; TITLE OF INVENTION: Analogous To Protein Signal Sequences And Therapeutic Use

; NUMBER OF SEQUENCES: 253

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SHELDON & MAK

; STREET: 401 Florence Street, First Floor

; CITY: Palo Alto

; STATE: California

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk, 3.50 inch, 1.44 MB storage

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Word Perfect 6.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/045,394A

; FILING DATE: 12-APR-1993

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Cranfill, Raymond B

; REGISTRATION NUMBER: 32,845

; REFERENCE/DOCKET NUMBER: RATH-10016-1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-322-5333

; TELEFAX: 415-322-5499

; INFORMATION FOR SEQ ID NO: 47:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 7 amino acid

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-045-394A-47

Query Match 100.0%; Score 16; DB 4; Length 7;  
Best Local Similarity 28.6%; Pred. No. 4.2e+06;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|:

Db 1 ESRADRK 7

RESULT 8

US-09-455-294A-15

; Sequence 15, Application US/09455294A

; GENERAL INFORMATION:

; APPLICANT: Bannon, Gary A.

```
; APPLICANT: Burks, Wesley A.
; APPLICANT: Caplan, Michael J.
; APPLICANT: Sampson, Hugh
; APPLICANT: Sosin, Howard
; TITLE OF INVENTION: Peptide Antigens
; FILE REFERENCE: 2002834-0004
; CURRENT APPLICATION NUMBER: US/09/455,294A
; CURRENT FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: PCT/US96/15222
; PRIOR FILING DATE: 1996-09-23
; PRIOR APPLICATION NUMBER: 08/717,933
; PRIOR FILING DATE: 1996-09-23
; PRIOR APPLICATION NUMBER: 09/141,220
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/074,590
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/074,624
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/074,633
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/073,283
; PRIOR FILING DATE: 1998-01-31
; NUMBER OF SEQ ID NOS: 110
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Peptide of Ara
; OTHER INFORMATION: h 1 from Arachis hypogaea containing IgE binding
; OTHER INFORMATION: epitope
US-09-455-294A-15
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Query Match          100.0%; Score 16; DB 5; Length 10;
Best Local Similarity 28.6%; Pred. No. 1.7e+03;
Matches      2; Conservative      5; Mismatches      0; Indels      0; Gaps      0;
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Qy      1 XXXXDRX 7
        :::||:
Db      3 DYDDRR 9
```

# RESULT 10

US-09-141-220D-6

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; Sequence 6, Application US/09141220D
; GENERAL INFORMATION:
; APPLICANT: Bannon, Gary A
; APPLICANT: Burks, Wesley A
; APPLICANT: Sampson, Hugh
; APPLICANT: Sosin, Howard
; TITLE OF INVENTION: Methods and Reagents for Decreasing Clinical Reaction
; TITLE OF INVENTION: to Allergy
; FILE REFERENCE: 2002834-0043
; CURRENT APPLICATION NUMBER: US/09/141,220D
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: PCT/US96/15222
; PRIOR FILING DATE: 1996-09-23
; PRIOR APPLICATION NUMBER: 60/074,590
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/074,624
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/074,633
; PRIOR FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 10
; TYPE: PRT
; ORGANISM: peanut
US-09-141-220D-6
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Query Match 100.0%; Score 16; DB 5; Length 10;  
Best Local Similarity 28.6%; Pred. No. 1.7e+03;  
Matches 2; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXDRX 7  
:::|:  
Db 3 DYDDRR 9